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APPLICATION N	D. F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,772		11/21/2003	Thomas M. Fredericks	WEN/274/US	1453
2543	7590	08/24/2005	005 EXAMINER		
	ALE & RIS I STREET	TAS LLP	CROSLAND, DONNIE L		
SUITE 1400 HARTFORD, CT 06103				ART UNIT	PAPER NUMBER
				2636	

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/718,772	FREDERICKS ET AL.	
Office Action Summary	Examiner	Art Unit	
	DONNIE L. CROSLAND	2636	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply reply within the statutory minimum of thirty (3 riod will apply and will expire SIX (6) MONTH: atule, cause the application to become ABAN	y be timely filed (0) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on _			
<u> </u>	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal matters	s, prosecution as to the merits is	
closed in accordance with the practice under	er <i>Ex parte Quayl</i> e, 1935 C.D. 1	1, 453 O.G. 213.	
Disposition of Claims	·		
4) Claim(s) <u>1-20</u> is/are pending in the applicated 4a) Of the above claim(s) is/are with			
5)⊠ Claim(s) <u>11-20</u> is/are allowed.			
6)⊠ Claim(s) <u>1-10</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10)⊠ The drawing(s) filed on 21 November 2003		bjected to by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyance	. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the cor	rection is required if the drawing(s)	is objected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached C	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of:	•	19(a)-(d) or (f).	
1. Certified copies of the priority docum	·		
2. Certified copies of the priority docum	• • •		
3. Copies of the certified copies of the papplication from the International Bur		ceived in this National Stage	
* See the attached detailed Office action for a		ceived	
Coo the amorned detailed Office action for a	not of the certified copies flot fet		
Attachment(s)  Notice of References Cited (PTO-892)	4) Theories Sur	nmary (PTO-413) .	
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date 11-21-03.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date
5) Notice of Informal Patent Application (PTO-152)
6) Other:

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, "said arrays" has no antecedent basis.

In claim 10, "said PC boards" has no antecedent basis.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, and 7-9 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Roller.

Roller shows the beacon that includes a generally cylindrical, thermally conductive support 70 as shown in figures 2 and 3; plural LEDs mounted in thermally conductive relationship to the support 70, col. 5, lines 18-43; plural reflectors 71; and a thermally conductive base 30, col. 8, lines 29-29-31 and 58-61, wherein a thermal pathway is provided between first support 30 and second support 70, see cols. 5 and 6.

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With respect to claim 2, see cup shaped lens 91 in figure 2. The base 30 is not covered by the lens.

With respect to claims 7-9, the troughs are defined by reflector 71.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 3-6 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roller.

With respect to claim 3, the polygonal surface would not involve patentable invention since it is within the capabilities of the skilled artisan to employ desired shapes, see col. 5, lines 39-43.

With respect to claims 4 and 5, the artisan recognizes the thermal qualities of PC board 40 for thermal conduction.

With respect to claim 6, see the trough opening in figure 3

With respect to claim 10, the artisan recognizes the advantages of a metal core PC board when involving thermal conduction.

# Allowable Subject Matter

Claims 11-20 are allowed.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONNIE L. CROSLAND whose telephone number is 571-272-2980. The examiner can normally be reached on Mon-Fri, 9:30a-6:00p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFERY HOFSASS can be reached on 571-272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DONNIE'L. CROSLA Primary Examiner Art Unit 2636

DIc 8-17-05